

# 2006-01-09 Systems Department Meeting

Tuesday, January 09, 2007  
2:00 PM

- Present: Ron Moore, Me, Cons, Valeri, Vaia, Ioanis, Keith Gollwitzer, Paul Czarapata, Paul Derwent, Bruce Baller, Bob Mau, Eric Prebys
- Proton Source
  - Things going well before MB shutoff.
  - Vulnerable now, due to I- Source work.
  - If H- fails, would have to bring a new source online which takes a few days.
  - Orbit control looks good. Adding restore functionality.
- Main Injector
  - Details, details, details.
  - All \$23 modules will be 2.2 seconds.
    - Slip stacking - losses will be an issue.
    - Plan to implement a display like Booster has for integrated MI losses.
    - Enable abort capabilities on BLMs.
  - The NuMI and collider curves are not right.
  - Collimators
    - Will put scrapers in and do one turn studies.
  - Transfers - waiting on dampers
  - Pbars still have a loss up the ramp, especially on the first transfers.
  - 2.5MHz acceleration?
- Pbar
  - Running 2.2 seconds
    - Backstreaming -
    - Cut back flux into accumulator
      - Decrease beam on target
      - ARF1 bucket area
    - Debuncher cooling - so transverse emittances a little higher to Accumulator.
    - Accumulator emittances larger
    - Shots to RR - higher emittances,
    - Impact of cycle time on pulsed devices.
    - Take 2 to 3 stacking cycles per day. No studies during that time.
    - Will be ready to try next week.
  - New equalizer
    - During long shutdown.
  - ST Tank Moves
    - Need three weeks.
  - Lens - next weakest spot is the transformer.
  - IBV1 - should be ready. -
- Recycler
  - DCCT
  - Performing well
  - 400e10 -
- Tevatron
  - Proton lifetime with
  - Talk about models -
  - Proton quality - loading has been poor.
  - Pbar cogging up the ramp.
    - When had problems, used to cog to the correct positions
    - Now will cog two buckets off, then after FT, then cog to correct position.
  - Nearly ready to try - run with new set of sext. Ps. Awaiting EE Support - Access ot

- F Sector - then testing. 2 shifts of access and testing.
  - Then take some beam to verify chromaticity settings. - zero out split sextupoles.
  - Ready for aggressive protons at 150GeV.
    - May just try to do with proton intensities
    - Go up 10%
- SuperTableIV
  - Switch mid-January.